

AMENDMENTS TO THE SPECIFICATION

IN THE ABSTRACT OF THE DISCLOSURE:

Replace the Abstract of the Disclosure currently of record with the attached new Abstract of the Disclosure.

IN THE TITLE OF THE INVENTION:

Please amend the title as it appears on the first page of the specification and in the U.S. Patent and Trademark Office's records, as follows:

~~--A SIGNAL PROCESSING METHOD TO ANALYSE TRANSIENTS OF LAPLACE TRANSFORM FOR TRANSIENT SPEECH ANALYSIS SIGNALS--~~

IN THE SPECIFICATION:

Please add the following paragraph after the paragraph ending on page 13, line 23:

--In Fig. 1, the input signal  $v_i$  is a sound signal which is received by signal processor 10 which produces an output which is the impulse response  $V_0$ .--

Please amend the paragraph beginning on page 22, line 28, as follows:

--The transient (envelope) signal in Fig. (6) has a DC component, which does not contain any information. Therefore it is preferred that the signal is differentiated, 24 before it is analysed e.g. by the filter bank, 26 shown in Fig. 13.--

Please amend the paragraph beginning on page 22, line 33, as follows:

--In Fig. 13, the filters, 20 ( $h_1(t)$ ,  $h_2(t)$ , ...,  $h_n(t)$ ) in the filter bank connected between the input and the envelope detectors are band-pass filters having bandwidths corresponding to the bandwidths of the band-pass filters of the cochlea and having centre frequencies ranging from 1400 Hz to 6500 Hz.--

Please add the following paragraph after the paragraph ending on page 23, line 2:

--Fig. 13 shows an input sound signal  $V_i$  which is used as an input for a series of band-pass filters 20. The output of these filters is then sent to low-pass filters 22 before being differentiated by differentiators 24. The signal is then sent to a filter bank 26, each composed of a plurality of band-pass filters to pass output signals  $O_{ij}$ .--